DROP DATE - THE POINT OF NO RETURN

MIT's Oldest and
Largest Newspaper

thetech.com

The Tech
Established 1881

WEATHER, p. 2
THU: 75°F | 54°F
Sunny
FRI: 79°F | 55°F
P.M. showers
SAT: 60°F | 42°F
A.M. showers

Volume 136, Number 13

Thursday, April 21, 2016

20% of undergrads have used dildo.io

Site was meant to 'open channels of communication' for students

By William Navarre
EXECUTIVE EDITOR

More than 20 percent of undergraduates have indicated sexual interest in another undergrad on a web app designed to decrease the effort required to begin a sexual relationship.

The website, dildo.io, was launched in East Campus last month and provides users who log in with a list of all MIT undergraduates in the system. Users are expected to indicate they are "DTF" another user by checking the box provided next to that user's name. If, and only if, two people check each other's boxes, a message will show up on each user's page indicating they've "matched."

Unlike Tinder and other dating apps, the site is designed to facilitate communication between acquaintances, rather than strangers.

"The main reason I created the site was to open channels of communication," Max '17, who set up the site, told *The Tech*.

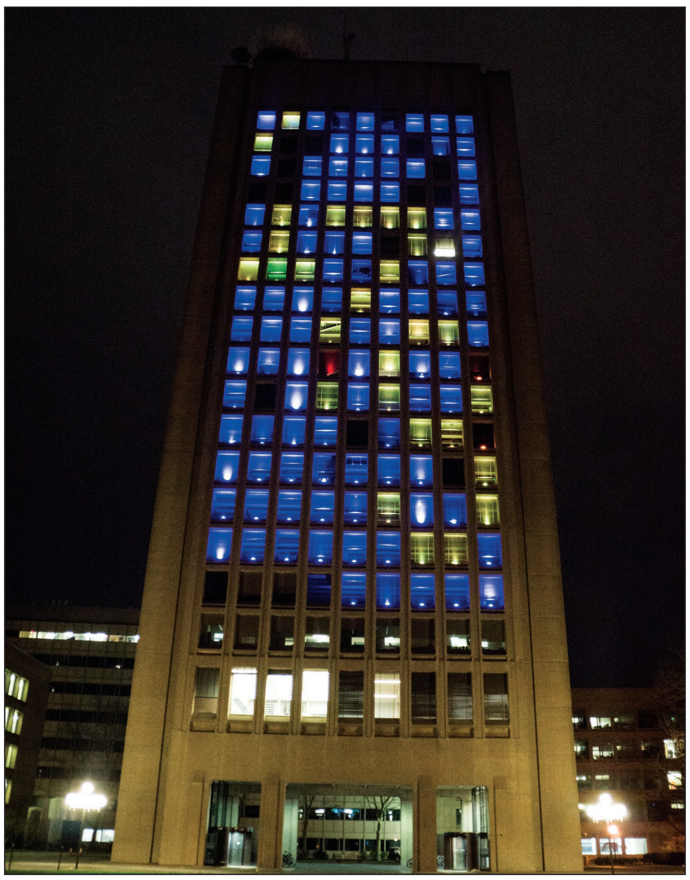
Max, who lives on Tetazoo in East Campus, asked that we not mention his last name here (though his full name is mentioned in several public MIT Confessions Facebook posts related to the site).

The statistics indicate that the website has, in fact, opened up quite a few lines of communication. Max said that at last check, it was showing 622 matches. (The site doesn't retain historical data, so only active matches where both parties still had their boxes checked when Max looked are accounted for.)

Max is surprised the site has taken off: he said it started out as a "big joke."

"The original [idea] was [that] it was going to be cryptographically secure," he said. "It was an idea for HackMIT. [You'd] have your browser connect pairwise to everyone

Dildo.io, Page 3



TRISTAN HONSCHEID—THE TECH

Hackers light the windows of the Green Building to display "179," the badge number of MIT Police Officer Sean Collier, who was killed three years ago during the Boston Marathon bombings.

Schmill is new Dean of Student Financial Services

Will still serve as admissions dean

By Karleigh Moore
EDITOR

Stu Schmill '86, currently Dean of Admissions, will serve as the new Dean of Student Financial Services. He will continue to oversee the admissions office as well, in his new position as Dean of Admissions and Student Financial Services.

Schmill's heading both Admissions and Student Financial Services "will allow for even greater collaboration between the two offices" and to "even better service to our students and their families," Dennis Freeman PhD '86, Dean for Undergraduate Education, said in an email announcing Schmill's appointment.

"MIT is one of only five American colleges and universities that currently practice need-blind admissions for all undergraduate students, award all financial aid based on need, and meet the full demonstrated financial need of all admitted students," Freeman claimed in the email.

In the March faculty meeting, Provost Martin Schmidt PhD '88 spoke about tuition and financial aid increases for the coming 2016-2017 school year.

In 2016-2017, a 3.75 percent increase in tuition will be accompanied by a 10.4 percent increase in financial aid. For families with incomes over $150,000 per year, home equity will no longer be considered part of their capacity to pay for MIT. For all families, the expected parental contribution will be reduced by $2,000.

Schmidt said that there are several factors to determining financial aid for a given year.

MIT tries to remain competitive with peer institutions when it comes to financial aid, particularly with respect to Harvard, Yale, Princeton, and Stanford (HYPS). Schmidt pointed out that for the 2015-2016 school year, MIT's tuition of $46,704 fell between the highest and lowest tuitions in the HYPS group (Yale at $47,600 and Princeton at $43,520)."

MIT also tries to maintain a uniform admissions yield across income brackets, and surveys admitted and enrolled students to find out how satisfied students are with their financial aid.

Schmidt also mentioned that un-

Schmill, Page 13

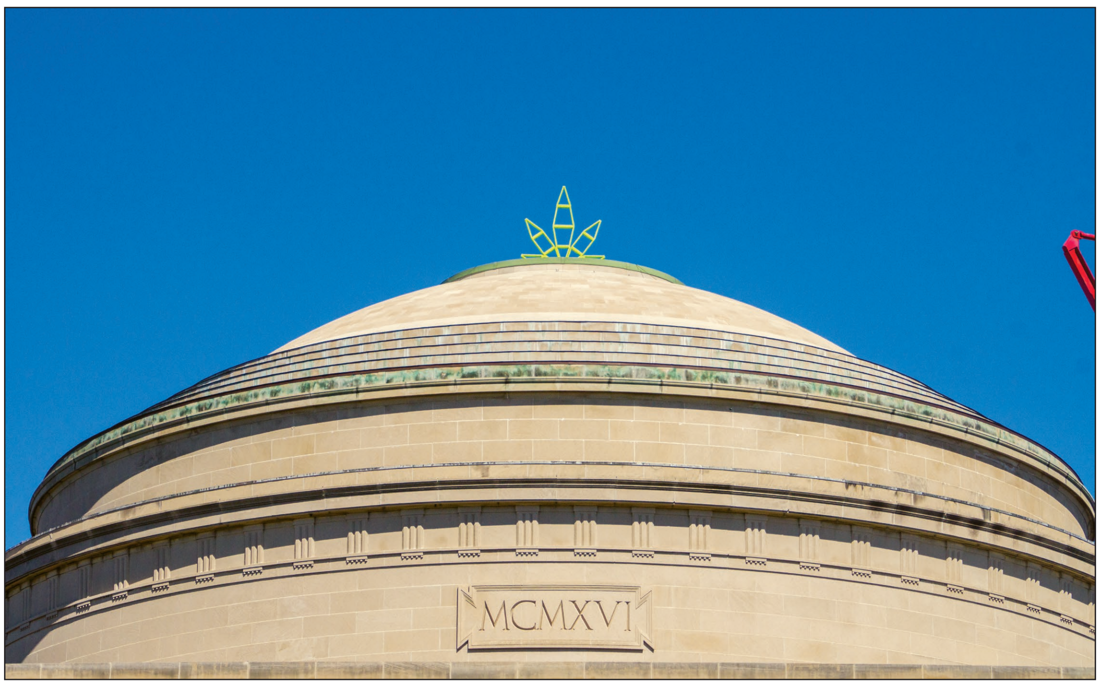
Course 4 builds shape-shifting tower

Bexley's old location was the site of increased activity on April 20 as the Self-Assembly Lab of the Architecture Department prepared for the MIT Open House. The group constructed a 65-foot tower, whose shape initially led to speculation and amusement on the mailing list 420-discuss. However entertaining, the shape, which will be changing multiple times a day, is the tower's main feature.

The tower is a mesh of 36 PVC pipes connected by hinges to the base ring, enabling it to smoothly reshape itself multiple times a day. The Self-Assembly Lab hopes to gain further insights into the structure's dynamic properties by load testing it. Through this project, the lab hopes to give a vision for the future of morphable structures and how they could be used as stadium roofs, performance venues, or even display surfaces.

To make such a structure possible, researcher and lab co-director Skylar Tibbits has partnered with two firms, Tait Towers and Atelier One. Tait Towers is a Pennsylvania-based company specializing in setting live stages such as the ones for Taylor Swift, Pope Francis in Madison Square, or the Winter Olympics in Sochi. Atelier One specializes in structural engineering and can count in its portfo-

Tower, Page 13



TRISTAN HONSCHEID—THE TECH

Students positioned a wooden leaf on the Great Dome on April 20.

IN SHORT

DormCon elections will be held Thursday, April 21 at 7:30 p.m. in W20 Private Dining Rooms 1 and 2.

MIT Open House will take place Saturday, April 23 from 10 a.m. to 3 p.m.

Drop Date is today, April 21. Make sure to finalize changes to your class schedule by 11:59 p.m. tonight.

SpringFest is next Friday, April 29. Tickets are on sale at *tickets.mit.edu.*

To enter the summer housing lottery, apply for summer housing by Sunday, April 24.

Send news information and tips to news@tech.mit.edu.

GET INVOLVED
There are many ways for you to effect change. **OPINION, p. 5**

PORTRAITS OF RESILIENCE
Pillars of well-being. **CAMPUS LIFE, p. 10**

BAGELSAURUS
How early would you wake up for a breakfast sandwich? **ARTS, p. 7**

BOSTON MARATHON
View from the Wellesley Scream Tunnel. **PHOTO, p. 8**

TAEKWONDO TEAM
A Division I team takes second place. **SPORTS, p. 16**

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WEATHER

Work week ends with warm weather

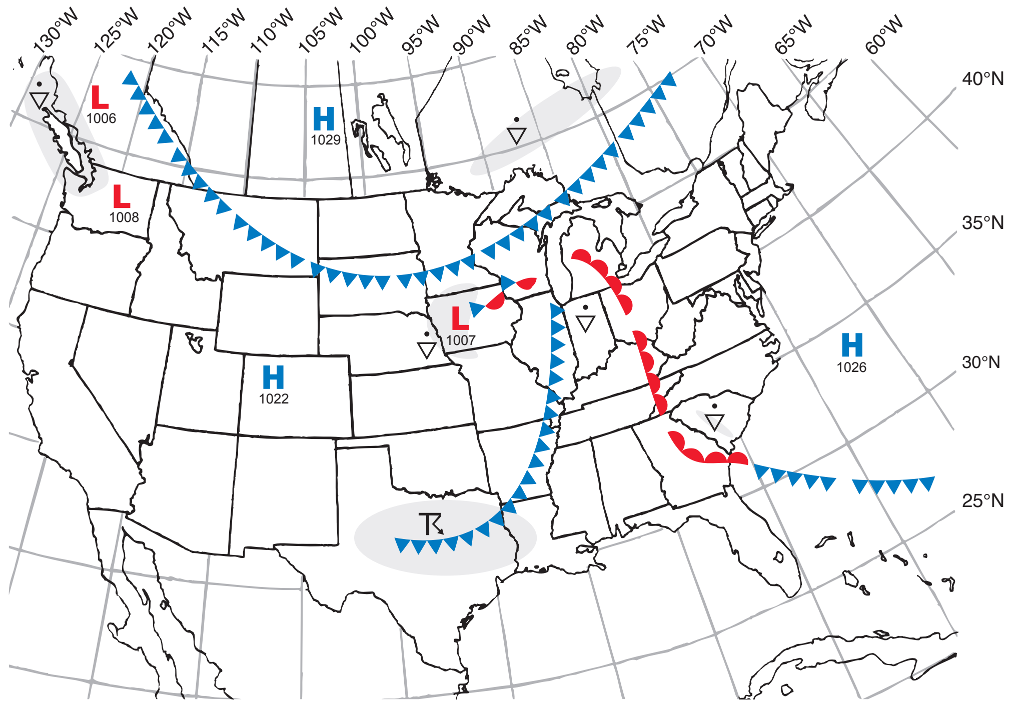
Vince Agard
STAFF METEOROLOGIST

The temperature in Boston will reach the 70°F mark this afternoon for the third time in 2016, as an approaching frontal system drives offshore flow. The offshore wind (blowing from the land toward the ocean) will result in a temperature increase over previous days, as it brings warm air in from the southwest, and prevents the development of a sea breeze. Sea breezes are thermally direct onshore wind flows that occur when the ocean surface is significantly cooler than the adjacent land. This happens frequently in New England springtime, since the heat capacity of the ocean is much greater than that of the land, and so there is a time lag in the warming response of sea surface temperatures to the brighter sunshine of the spring season. The frequency of sea breezes is one major reason why Boston's average high temperature for today is only 58°F (14°C).

Today's warming trend will carry over to tomorrow, when temperatures will have a chance to reach the upper 70s (°F) before a cold front passes through tomorrow night, bringing with it a band of showers and thunderstorms. Sunshine will return for Saturday and Sunday, but so will the likelihood of afternoon sea breezes, meaning the temperature will top out near 60°F (16°C) at around midday.

Extended Forecast

Today: Sunny, high 75°F (24°C). Winds SW at 5-10 mph, becoming breezier in the afternoon.
Tonight: Partly cloudy, low 54°F (12°C). Winds SW at 5-10 mph.
Tomorrow: Partly cloudy with showers and/or thunderstorms in the afternoon and evening, high 79°F (26°C). Winds from the SW at around 10 mph, gusting higher later in the day.
Saturday: Morning showers and/or thunderstorms, then mostly sunny, highs around 60°F (16°C).
Sunday: Sunny, highs around 60°F (16°C).



Situation for Noon Eastern Time, Thursday, April 14, 2016

Weather Systems	
H	High Pressure
L	Low Pressure
§	Hurricane

Weather Fronts	
▬ ▬ ▬	Trough
◠◠◠◠	Warm Front
▲▲▲▲▲	Cold Front
▲◡▲◡	Stationary Front

Precipitation Symbols	Snow	Rain
Showers	* ▽	• ▽
Light	*	•
Moderate	**	••
Heavy	⁂	∴

Other Symbols	
≡	Fog
↯	Thunderstorm
∞	Haze

Compiled by MIT Meteorology Staff and *The Tech*

KNOW OUR POLICY

SEXUAL MISCONDUCT is a broad term including sexual harassment, sexual assault, rape, and sexual exploitation. "MIT students are expected to engage in sexual behavior of any kind only with the FULLY INFORMED and EFFECTIVE CONSENT of all parties involved. Effective consent must be obtained for each instance and each escalation of sexual activity. Obtaining effective consent is the RESPONSIBILITY of the party initiating sexual activity. Doing otherwise may constitute sexual misconduct and is a violation of MIT policy."

—*Mind & Hand Book*

KNOW YOUR OPTIONS

REPORT TO MIT:
TITLE IX: TITLEIX.MIT.EDU

REPORT TO POLICE:
MIT POLICE: 617-253-1212

IT'S ON US

Solution to Washington

from page 6

3	2	6	7	4	5	8	9	1
4	9	7	8	2	1	3	6	5
5	1	8	3	6	9	7	4	2
2	6	9	4	1	8	5	7	3
8	5	1	9	3	7	6	2	4
7	3	4	2	5	6	9	1	8
1	8	5	6	9	2	4	3	7
9	4	2	5	7	3	1	8	6
6	7	3	1	8	4	2	5	9

Solution to Lincoln

from page 6

2	3	1	4	5	6
6	1	5	2	3	4
5	6	4	1	2	3
3	4	2	5	6	1
1	2	6	3	4	5
4	5	3	6	1	2

Solution to Hamilton

from page 6

6	2	1	9	5	7	3	8	4
9	8	4	2	1	3	5	7	6
3	7	5	8	6	4	2	9	1
7	4	3	6	8	2	1	5	9
1	9	6	7	3	5	4	2	8
8	5	2	4	9	1	6	3	7
2	3	8	1	7	6	9	4	5
4	1	9	5	2	8	7	6	3
5	6	7	3	4	9	8	1	2

Solution to Tubman

from page 6

6	2	3	5	4	1
1	3	4	6	5	2
2	4	5	1	6	3
5	1	2	4	3	6
3	5	6	2	1	4
4	6	1	3	2	5

622 students were 'matched'

Because dildo.io does not retain historical data, this figure only takes active matches into account

Dildo.io, from Page 1

else who is online."

When it became apparent that making the site function as a cryptographically secure application would be impractical, he spent a weekend implementing the site that exists now.

The site was originally only available to East Campus residents. Max said he hastened to add other undergraduates when people complained on MIT Confessions that they wanted to use the site.

He said he didn't give too much thought to the fact that the checkboxes are labeled "DTF" — a colloquial initialism for "down to fuck."

"I really did not mean 'DTF' to be taken so literally. I chose that language because, amongst my friends, we'll often [say things like] 'are you DTF to go to Chipotle.'"

It also helped that "DTF" is a short phrase and fits well.

He says some users have adopted his loose usage. "Some people use [the site] to indicate like, romantic interest, or general interest."

A female from Random Hall says she's "not DTF anyone," so she selects people she'd be interested in cuddling with.

One obvious way to defeat the site's intent is to check all the boxes. To prevent this spammy behavior, Max said, the site reveals to the user how many people each of their matches has indicated interest in. He also added a feature that allows users to specify that they don't want to be matched with people who have expressed interest in too many people.

A class of 2017 resident from a different floor of East Campus says she tried to game the system in this way before Max added the latter feature. At the time, she said, only East Campus residents could use the site, and she checked all of them.

She says the tactic got her a few matches but "a few were very yikes-y." She matched with a few people "that had repeatedly expressed interest [and whom she'd already] actively rejected in the real world."

Though she removed those matches as soon as possible, she said that when she uses the site properly, she has better results.

"I check boxes [if I'm] potentially interested [in something sexual]," she said. But she says that the amount of interest varies. Some of the people she checks, she said, she'd be interested in making out with at a party. With others, she'd be very interested in sex.

"I've had a few coffee dates [with matches] that have descended into makeout sessions. One or two of them have gone further."

She said she can't be completely sure that any of the sex wouldn't have happened without dildo.io, but admitted it definitely helped with the initial communication.

She expects that some of her matches may lead to future sex with people she wouldn't have otherwise had sex with.

She has already had conversations she wouldn't have had otherwise: one in particular took place with an individual who she said "doesn't really talk about their personal emotions and their sexuality and that sort of thing, and they were sort of in a confused phase of their self-discovery. That match gave them an opening to talk to someone."

LENNY MARTINEZ—THE TECH

A member of the class of 2018 shows off his newly acquired Ultrium class ring.

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Undergrads:
Join **Professor Kristala Prather** to discuss the role of **biofuels** in our energy future.

April 25, 2016, 12pm-1pm
Lunch will be served.

Conceptual image by Christine Daniloff/MIT

At this workshop, learn about the challenges and opportunities for biofuels research during changing economic conditions.

RSVP: energy.mit.edu/prather

MITei
MIT Energy Initiative

Part of the MITEI Undergraduate Energy Seminar Series

DHOOM!
MIT's Biggest Bollywood Party

Saturday, April 23, 7pm
MIT Lobdell Court (W20-208)
Delicious Indian Dinner! BollyX Instructors!
DJ & Dance Floor! Filmy Costume Photobooth!

Sangam LEF-ARCADE BOLLYX The Bollywood Workout

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The need to hold Abbas accountable

The west’s blind eye hurts both Israelis and Palestinians

By Suri Bandler

STAFF COLUMNIST

On April 18, a bus was bombed in Jerusalem in a terror attack. Hamas, the internationally recognized terror organization that controls the Gaza Strip, praised the attack and said that the group “blesses the Jerusalem operation.” Israeli Prime Minister Benjamin Netanyahu condemned the attack immediately, pledging to hold the terrorist accountable. So far, President of the Palestinian Authority Mahmoud Abbas has remained silent. In February 2015, a federal jury found the Palestinian Authority and Palestinian Liberation Organization responsible for supporting six terror attacks in Israel — including similar bombings and deadly shootings — that claimed the lives of American victims. However, the western world and the U.N. continue to believe Abbas’s claims that he is eager to make peace. Perhaps they are influenced by some of his favorable-sounding comments over the years.

> **Abbas says that he’s opposed to violence, and yet just last month he referred to the current terror wave of stabbings and vehicular ramming attacks as “legitimate peaceful protest.”**

—**On making peace**: While addressing the U.N. General Assembly in September 2015, Abbas claimed, “We are working on spreading the culture of peace and coexistence between our people...”

—**On rejecting violence**: While addressing the U.N. General Assembly in 2011, Abbas said: “The PLO and the Palestinian people adhere to the renouncement of violence and rejection and condemning of terrorism in all its forms…”

—**On aiming for a two-state solution:** Also in his 2011 address to the UN, Abbas stated, “The goal of the Palestinian people is the realization of … their independent State of Palestine, with East Jerusalem as its capital, on all the land of the West Bank, including East Jerusalem, and the Gaza Strip…”

As a result, Abbas is viewed by many influential world leaders as a partner for peace. In a 2013 address to the people of Israel, President Obama stated, “I genuinely believe that you do have a true partner in President Abbas.”

In reality, Abbas says one thing to the U.S. and the west and quite another to his people and the Arab world. Both through his words and through his actions, Abbas contradicts his claims that he desires to live in peace with Israel. By evaluating his statements that were not directed at the west, it becomes clear that Abbas and the P.A. promote hate, incite violence, reject a two-state solution, and deny Israel’s right to exist.

—**On promoting hate:** Abbas’s party, Fatah, releases hateful political cartoons that often use classic forms of anti-Semitic imagery. For instance, Fatah released two cartoons following the November 2015 Paris attacks. One depicted Netanyahu and an ISIS figure crouched on a balcony aiming a gun with the Eiffel Tower in the background, implying that Israel was behind the attacks in collaboration with the terrorists. Another depicted a matchbox with the word “terrorism” written across the front containing an “ISIS” match and a “Jewish” match. Meanwhile, some schools under the P.A.’s ministry of education are named after terrorists.

—**On inciting violence:** Abbas says that he’s opposed to violence, and yet just last month he referred to the current terror wave of stabbings and vehicular ramming attacks as “legitimate peaceful protest.” He meets with the families of terrorists and has praised them as martyrs, and his government builds memorials in their honor. Abbas says that Israel is defiling the temple mount, and on Palestinian television he said, “We welcome every drop of blood spilled in Jerusalem.” His party Fatah released a music video on its TV channel calling on Palestinians to “drown [Israelis] in a sea of blood, kill them as you wish.”

—**On rejecting a two-state solution:** Although he has repeatedly told the U.N. that he supports a two-state solution, Abbas rejected Prime Minister Olmert’s proposal in 2008 that would have established a Palestinian state in the West Bank (after land swaps), with the eastern parts of Jerusalem as its capital, the Old City under international control, and a tunnel built connecting the West Bank and the Gaza Strip. Similarly, in March 2016, Abbas rejected a U.S. peace initiative offered by Vice President Biden that included designating the eastern part of Jerusalem as the capital of a future Palestinian state and a halt in settlement construction in return for the recognition of Israel as the Jewish State.

—**On denying Israel’s right to exist:** At the same time, Abbas denies Israel’s right to exist. In a Palestinian TV interview in March 2016, Abbas referred to all of Israel as occupied territory and claimed that “we’ve been under occupation for 67 or 68 years.” By claiming that an occupation began in 1948, when Israel was reestablished, and not 1967 when Israel gained control of the West Bank in a defensive war, Abbas denies Israel’s right to exist even according to the 1947 Partition Plan. He publically claims that settlements are the obstacle to peace, but also claims that the whole nation is occupied, therefore contradicting himself. On Palestinian television in 2014, Abbas was even more direct: “The Palestinians won’t recognize the Jewishness of the State of Israel and won’t accept it.” Other politicians in his Fatah party are entirely explicit. A senior official of the P.A., Abbas Zaki, said in a 2011 interview, “If I say that I want to remove [Israel] from existence, this will be great, great, [but] it is hard. This is not a [stated] policy. You can’t say it to the world. You can say it to yourself."

It may be tempting to hope that Abbas is committed to his more peaceful assertions, but in light of his own stated intentions and actions, that would be turning a blind eye. Unfortunately, that blind eye leads to disastrous consequences for both Israelis and Palestinians. It causes many in the international community to view Israel as the sole party responsible for the lack of peace in the region, which gives the Palestinian Authority the legitimacy to continue to incite violence and hatred among its people. This delays peace even further. Abbas’s duplicity, for example, has helped lead western powers such as France and Spain to draft one-sided resolutions condemning Israel’s settlement policy as the obstacle to peace, with no mention of the P.A.’s actions. Similarly, just this past week, the United Nations Educational, Scientific, and Cultural Organization (UNESCO) presented a resolution that entirely ignored Jewish ties to the Temple Mount, the Cave of the Patriarchs, and Rachel’s Tomb. Not only does this blatantly ignore history, but it also encourages violence and hatred as some Palestinians are led to believe that Israel is attempting to desecrate these sites. Terrorists then have further motive and support from their own people to attack Israeli civilians.

> **It may be tempting to hope that Abbas is committed to his more peaceful assertions, but in light of his own stated intentions and actions, that would be turning a blind eye.**

Abbas has shown that he is willing to lie in order to gain credibility among the international community. In the meantime, he incites violence and rejects peace. Tragically, both his own people as well as the people of Israel suffer from his duplicity. Abbas is entering his eleventh year of a four-year term, and no elections are in sight. As terror continues to plague Israel and Abbas prepares another U.N. resolution condemning settlements to divert attention from the P.A., it is crucial that western powers acknowledge his double-speak. After all, opinions should always be based on reality rather than on selective hearing. Therefore, Abbas must be held accountable for *all* of his words and actions, and the role of Abbas and his government in the downfall of the peace process must be recognized and condemned on the international scale — if not for Israel’s sake, then for the sake of Abbas’s own people.

CORRECTIONS

A headline in last week’s issue incorrectly stated that “Six MIT students win Lemelson-MIT prize.” In fact, they won The Lemelson-MIT Student Prize.

OPINION POLICY

Editorials are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Colleen Madlinger, Editor in Chief Katherine Nazemi, Managing Editor Vivian Hu, Executive Editor William Navarre, and Opinion Editor Claire Lazar.

Dissents are the signed opinions of editorial board members choosing to publish their disagreement with the editorial.

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LETTERS TO THE EDITOR

Students: get involved with MIT's policymaking processes

By Lilly Chin

Two weeks ago, *The Tech* ran an article about students Sam Duchovni and Nchinda Nchinda being punished for violating the Allied Barton security policy. It was incredibly frustrating for me to read because Nchinda's and Sam's dorm security stories were so similar to my own experiences. Strict dorm security has caused friends to stop visiting me, made me unable to attend a public Dormcon meeting, and was a nontrivial reason for me to move out of my old dorm. As Jade Philipoom wrote in an earlier letter to the editor about security, "few experiences have made me feel less at home."

> **Students have long felt excluded from policies that affect them.**

But this story was also frustrating because its underlying theme wasn't new either. Students have long felt excluded from policies that affect them, as seen by these quotes from 2011:

"*[The DSL dining subcommittee] has regularly dismissed my opinion to the point where I have been unable to contribute to any positive changes for Baker residents.*" — President of Baker House on the process of developing the dining plan in *The Tech*.

"The handling of several recent situations has left many students feeling disenfranchised and has generated the perception that administrators disregard or are unwilling to solicit input." — Five former UA Presidents calling for senior administrators to engage more with students in the Faculty Newsletter.

It's clear to me that there's some systemic failure in communication between the students, the student government, and the administration. So the question is: what do we do about it?

For me, it took the last two years to understand the communication problem well enough to effectively fight the dorm security policy. I read the 2012 security recommendations and heard one author's disappointment that the report's recommendations weren't being enacted. I met with Dormcon housing chairs, members of the Corporation, and President Reif. With Dormcon's help, I collected a series of actionable security policy changes and presented them to Chancellor Barnhart. I even talked to alumni about the feasibility of student protests.

I was ultimately unable to achieve any concrete policy changes. Although I was thanked by many students for continuing security policy discussion and visibly representing student unhappiness, one thing became clear — it is very hard for one undergraduate, working alone, to get anything accomplished. I would need to leverage existing networks for help if I wanted to make a large change.

In my case, I found this network through student government. Although people I spoke to initially dismissed student government as "useless and ineffective," it turned out that students in government and Institute Committees are the only ones who meet regularly with administrators. Through elections, we have given our student government the position they need to represent students to the administration and enact change accordingly.

And change is definitely happening.

Administrators and student leaders are highly aware that breakdowns in communication exist, and they are trying to fix that. The Committee on Academic Performance has released their recommendations for withdrawal and readmission policies after many years of students fearing potentially exploitive practices. Dormcon has created a security committee with student representatives. I've been working to create an Institute-wide committee to create informal open dialogue on opaque policymaking processes.

Perhaps you think these changes are too little, too late, and in some sense, they are. The students should have been involved earlier. Unfairness could have been avoided. However, student-administration communication is improving incrementally and needs more help from passionate students.

So, the question arises again: "How can I make an impact?"

> **It's clear to me that there's some systemic failure in communication between the students, the student government, and the administration.**

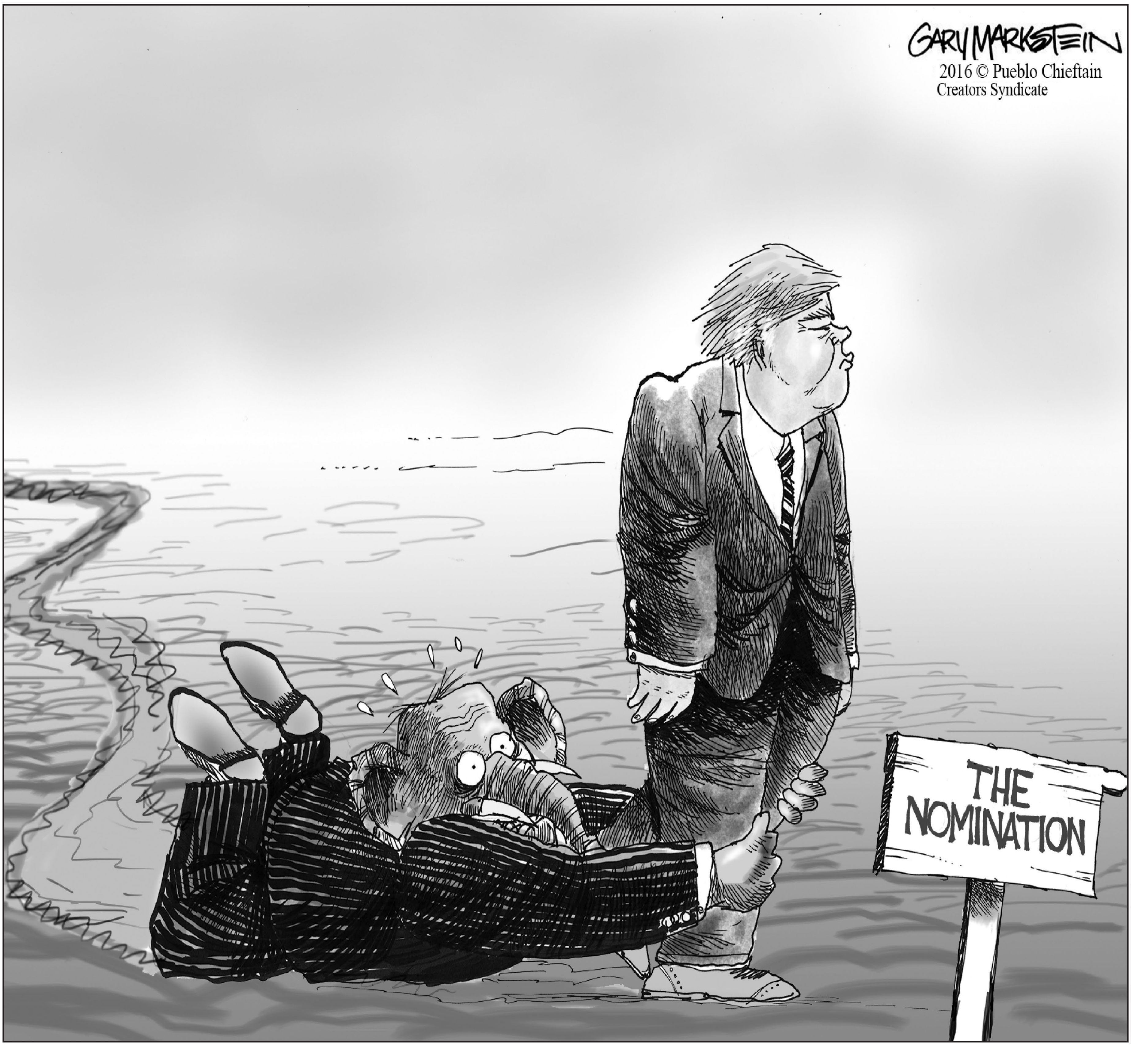
Get involved in your relevant living group government — IFC, Panhel, Dormcon, or LGC — or institutions with a broader scope like the UA and its committees. Being part of the Institute Committees is probably the most effective way to effect change short of being UA President. (Applications for next year are technically closed, but if you mention this op-ed, they will still take your application here: *http://tinyurl.com/instituteComm2016*.) If you don't have time, ask your local representative to bring up a topic and keep bothering them until you hear something definitive. This is the point of having representatives in the first place, and it's the channel from which administrators expect to hear student feedback.

If you'd rather not work through an intermediate, feel free to email administrators directly and ask for an in-person meeting. Even at the very highest level, President Reif and Chancellor Barnhart have office hours specifically set aside to hear from students. Keep in mind that student government officers or housemasters may know who the best administrator is to contact.

After reading this, if you still believe that the current government structure and policymaking processes are fundamentally broken and beyond saving, then maybe it's time to start a student protest. Just remember that large changes rarely happen overnight and that your peers may already be acting on the change that you see as "never going to happen."

And so, I urge you: don't let your discontent live and die in your hall, on mailing lists, or on anonymous Facebook rants. Talk to people. Get involved. Act.

Lilly Chin is a member of the Class of 2017 and the Chair of the UA Committee on Student-Administration Collaboration.



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Creators Syndicate

Washington

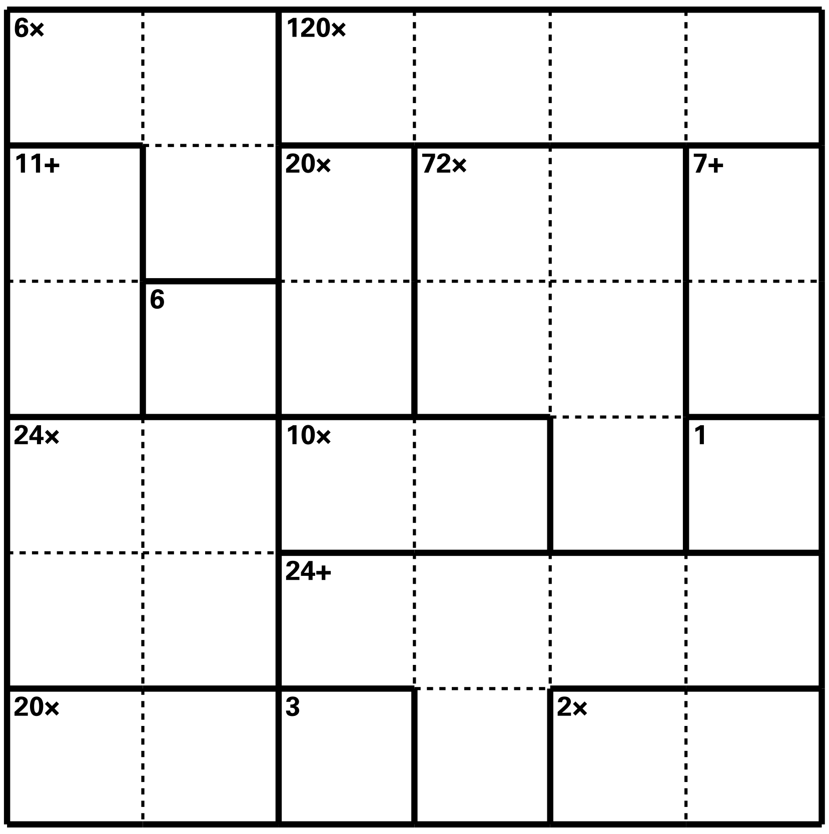
Solution, page 2

				4				1
4			8			3	6	5
	1		3			7		
	6			1				3
	5	1				6	2	
7				5			1	
		5			2		3	
9	4	2			3			6
6				8				

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Lincoln

Solution, page 2



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

Hamilton

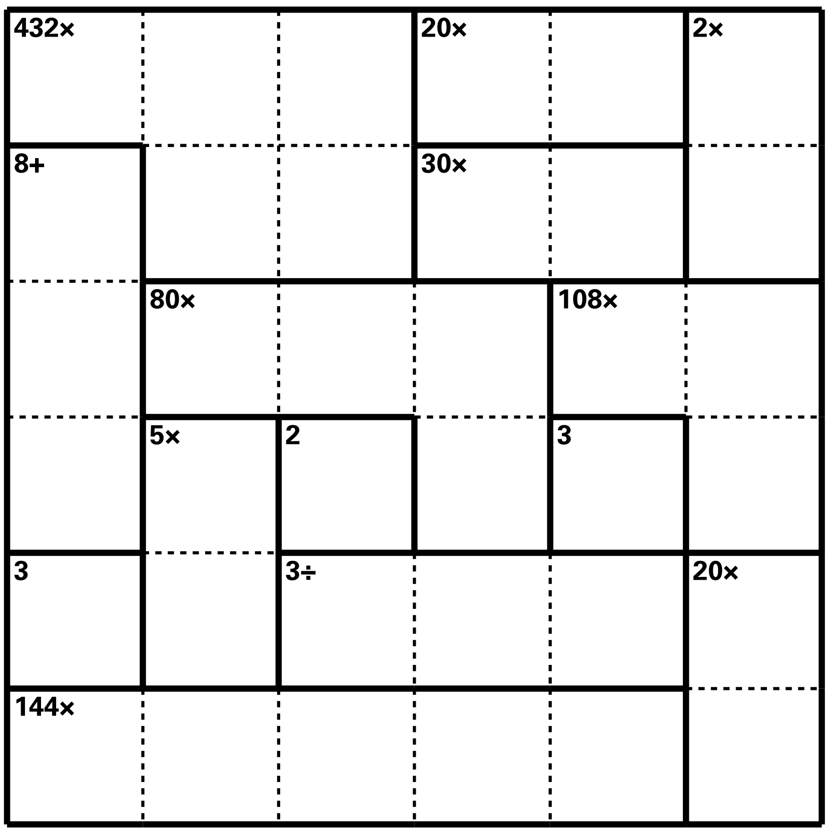
Solution, page 2

6	2				7			4
	8				3	5		
			8					1
			6	8			5	
	9	6	7		5	4	2	
	5			9	1			
2					6			
		9	5				6	
5			3				1	2

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Tubman

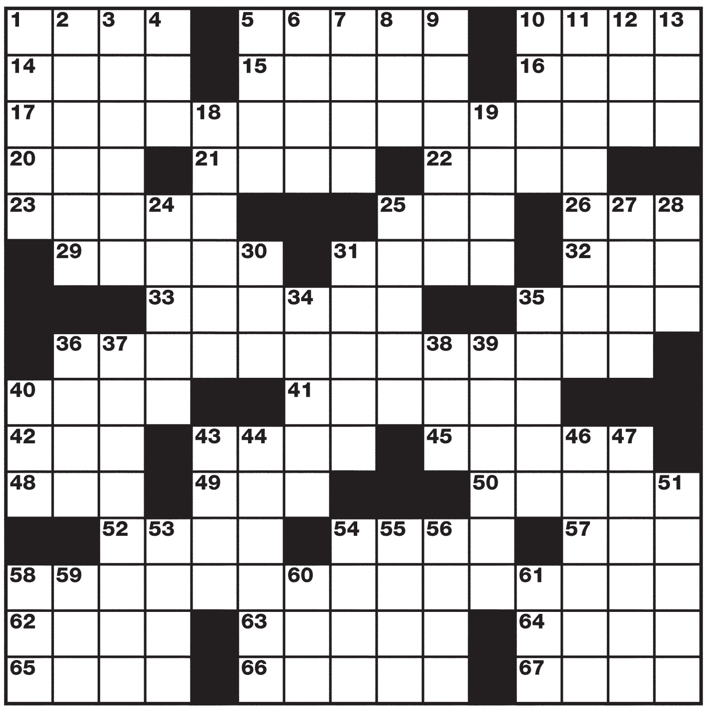
Solution, page 2



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

Chock-Full by Fred Piscop

Solution, page 13



ACROSS

1 Fill completely
5 Be a big boy, slangily
10 Tiff
14 Roundish shape
15 By oneself
16 Prepare for takeoff
17 Vacationers' burdens
20 Cinematic success
21 Gas in store signs
22 Two-year-olds
23 David's weapon
25 Director Brooks
26 Pod veggie
29 Use steel wool on
31 Baking __ (pantry staple)
32 Ancient
33 Emergency signals
35 Jacket sleeves
36 Pompous people
40 Penn of films
41 Proverb
42 Close friend
43 Small songbird
45 Gooey campfire snack
48 Nothing but
49 Shack
50 A wee hr.
52 Headed for overtime
54 Matterhorn's range
57 X-ray alternative
58 Interviewer's traps
62 Just sitting around
63 Money in Madrid
64 Proofreading instruction
65 Links accessories
66 One way to cook beef
67 Doc's prescriptions

DOWN

1 Class of 2018, today
2 Is of use to
3 Military maneuver
4 Caribou kin
5 Constructed
6 "Not to mention . . ."
7 Part of speech
8 Prefix meaning "singular"
9 Stroked, as a dog
10 Doc's "Right now!"
11 Customs document
12 Logger's implement
13 "My country __ of thee"
18 Inundate
19 Carbonated drink
24 A real drag
25 Unlike rolling stones
27 Shade trees
28 Billboard displays
30 UK fliers
31 Family auto
34 Bowling button
35 Most common inert gas
36 Formal mark of approval
37 Unlikely story
38 That guy's
39 Nearest the center
40 Mani-pedi locale
43 "This is fun!"
44 Ship's steering blade
46 Video console gadget
47 Merited
51 Fine rains
53 Midmonth day
54 Charismatic glow
55 People born before Virgos
56 "I've got a secret!"
58 Ignited
59 Keats creation
60 Quid pro __
61 Art movement suffix

RESTAURANT REVIEW

Creative sandwiches made with gooey eggs and delicious bagels

Bagelsaurus in Porter Square is definitely worth the morning trip

★★★★☆

Bagelsaurus

**Address: 1796 Massachusetts Ave,
Cambridge, MA 02140**

Hours: Sat - Sun 8 a.m. - 3 p.m.

Tue - Fri 7 a.m. - 3 p.m.

By Tara Lee
Arts Editor

You always hear about people trying out new places for dinner and brunch, but rarely for breakfast. It's not that surprising, since we're usually too lazy or too asleep to venture out on weekday mornings, or we just skip breakfast altogether. But the other day, I convinced myself and a couple friends to give breakfast adventures a shot, and we took the T over to Bagelsaurus in Porter Square bright and early at 8 a.m. It's a small shop that sells bagels and bagel sandwiches from 7 a.m. until they run out, and they have a few tables in the shop so you can sit down and enjoy your bagel before starting your busy day.

I tried the Classic Jumbo sandwich with ham, which came with an over-medium egg, cheddar, and mustard butter. I got it on a sesame bagel, which had an incredibly chewy inside with a slightly crunchy shell. The sandwich tasted like a typical breakfast sandwich at first, but the mustard butter definitely made it stand out — it provided the perfect tangy kick to make it immediately more memorable than any other breakfast sandwich. Gooey eggs also never hurt.

TARA LEE—THE TECH

T-Rex sandwich on a pretzel bagel from Bagelsaurus in Porter Square

Elizabeth got the T-Rex sandwich on a pretzel bagel, which came with banana, almond butter, honey, and bacon. I took a bite of hers, and it was amazing. "I really enjoyed my sandwich. Banana, nut butter, and bacon is an awesome combination of heartiness and saltiness," Elizabeth agreed. "The pretzel bagel itself was phenomenal too, but the best part was the housemade almond butter. My only complaint was that the pleasant saltiness of the whole sandwich at the beginning became more and more overwhelming toward the end. But overall, it was delicious, and I would get it again any morning."

Tina tried the Eggspañola sandwich on an onion bagel, which came with an over-medium egg, Maplebrook feta, pimenton aioli, and parsley gremolata. "Although each bite caused the eggs and feta to start squishing out the sides of the bagel, I still really liked the way the aioli, egg, and feta blended to give a creamy yet tart flavor!" Tina explained. "Also, the egg was just a tiny bit oozy at the yolk — perfect."

Overall, Bagelsaurus was an amazing way to start the morning. It's a bit pricey (around $8 for a sandwich, or $2.50 for a single bagel), but it's worth the unique sandwich components (like mustard butter, almond butter, or pimenton aioli that we could never find in a dining hall). You might have to wake up a bit earlier than usual to snag a bagel before they sell out, but I promise that it's worth the trip!

This article was originally published on the author's blog, Spilling the Beans.

It's Dangerous to Go Alone!
Take This.
photo@tech.mit.edu

SPOTLIGHT ON

Wellesley Scream Tunnel

Photos by Lenny Martinez

JUST KISS ME
KISS ME for a SPEED BOOST
Free Kisses! One Day Only!
KISS ME

TSEGAY
FELEKE
ROBI
KIPRO
NYASANGO
MILE

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loves you
SHARP ENDURANCE
IF YOU'RE READING THIS IT'S NOT TOO LATE KISS ME
LOVE YOUR STAMINA
GIRL POWER!

KISS ME
YASSS!!! GO K10
GO RUNDUM John
GO DAD
Rosa RUNS with you

992

If you run fast enough... We'll DROP the signs!

PORTRAITS OF RESILIENCE

Rosalind Picard

COURTESY OF DANIEL JACKSON

Editor's Note: Portraits of Resilience is a photography and interview series by Prof. Daniel Jackson. Each installment consists of a portrait and a story, told in the subject's own words, of how they found resilience and meaning in their life.

I've had three episodes of depression that stand out in my life. One was toward the end of my undergraduate career. I was an electrical engineering major at Georgia Tech. When people would take their minor classes in easy topics, I took nuclear astrophysics and stellar evolution. I was taking six EE and physics classes and doing several extracurricular activities. It was insane. I managed to finish number two in my class. The guy whom I'd tied for number one in high school became number one.

I loved my work, but I became a working machine. I thought I needed only enough sleep to stay awake. I used to fall asleep in my history class after lunch, which was bad. I made a B in history. I thought that was why I lost my number one spot.

I had no idea that anything was wrong with me, until the end of my senior year, when my closest friend and roommate pulled me aside and said, "I'm worried about you." I was sliding down a scale from being somebody who is usually very joyful and happy to being somebody who wasn't feeling much joy, and who was very irritable.

Anyway, it was close enough to graduation that I got through everything and felt great again. I came to grad school at MIT in EECS. I loved it here. I was not grade-driven; I was much more driven by wanting to learn new things. It was paradise. I worked as hard as ever, loved it as much as ever, and things were really going well.

Then I got married. I was certainly happy to get married, and my marriage is fabulous. But that first year of marriage was the toughest year of my life. We were living up in Wilmington, so I was spending all the time in a car, instead of walking and biking, and I took the hours of commuting off my sleep.

I became really depressed that year. I had every logical reason to be happy. I actually loved my work, but it's like there was no joy; I would wake up angry for no reason and wonder why I could not make myself feel happy.

I had the first thoughts ever of suicide during that time. That's when I started really worrying about myself. I had this image of approaching a cliff, and I would get near an edge and I would feel this panicked feeling. I felt like I was getting so close to it that if I looked over it I could fall, that I was going to let myself slip. That was a very scary feeling.

As an undergrad, I had become a practicing Christian, and I thought that killing oneself was wrong, and my husband also thought it was wrong. I remember that, at that moment when I didn't care anymore, there was a little voice tugging me a little bit away from the edge. I felt that no matter what I wanted, there was a greater source of knowledge saying, "This is wrong," and that I would benefit by listening to that.

To my husband's credit, he was wonderful and supportive, and I had amazing good friends who helped me through this too. This was the first time I got counseling. One of the things the therapist suggested was that maybe the hormones I starting taking when I got married were making a difference. I stopped taking the pill, and I started feeling better almost instantly. I started feeling like my old happy self again.

I got my PhD. I got hired by MIT. I got promoted. I got tenure. All was cool. We started a family. Son number one: great. Son number two: great. Son number three: I'm lying there over at MIT Medical, and they're checking on me, and I'm blessed with healthy children, healthy marriage, everything's great. Doctor says, "How are you doing?" Tears just start rolling out of my eyes.

Once, a friend of mine who was going through a really tough situation said he felt like he had been asked to climb Mount Everest, and only been given a bathrobe and slippers. I felt like I was being asked to climb a little personal Everest at this point, and I just didn't know what lay ahead or how to prepare for it.

The doctor said, "You know, I think it might do you some good to talk to somebody in mental health." I went to talk to a therapist a couple times and it was wonderful. She laid out the emotional trajectory of what was likely to happen. It's as if somebody asks you to sing a song you don't know, and they don't give you the lyrics. You're kind of stumbling through, but then if they give you the lyrics and you can read them first, and then sing it, you do a little better.

I could now see, "Oh, yeah, it would be normal to feel that at this point." Instead of just being broadsided by a set of feelings, I'm suddenly able to step back and say, "Oh, I know now what's going on and I can manage it."

It was resolved within weeks after I went to talk to her. It was amazing. In that case, it was just a cognitive thing. Perhaps the hormones were bringing it to a peak, but it was more that I had not prepared myself mentally for what I was getting ready to go through.

Depression isn't just one thing. Sometimes it's biochemical. Sometimes it's exercise and sunlight. Sometimes it's sleep. Sometimes it's cognitive thinking that you need a little help debugging, ideally by somebody who has the words to what you may have to sing.

Now I see it as this juggling act of figuring out what my priorities are, keeping them straight, and, also, having really great friends that help keep me accountable to that. My Christian faith has made a huge difference in my life, too. It's not just a set of beliefs. It's a set of practices.

I'm this extreme introvert. I would be very happy just curling up with a book and the Internet permanently by myself. But the Judeo-Christian scriptures tell you to put others before yourself, and to go out and love other people, even those who we think are unlovable.

I fail a lot, but when I have those momentary successes, it's amazing for my mood and my well-being, as well as perhaps making the world a little better. I don't want to think I'm doing it for selfish reasons, yet I feel like I benefit more than I deserve from some amazing relationships. Social relationships are good, even for introverts like me.

Often we're focusing on ourselves — on our own sleep, our own health, our own mental thinking, and all of this is important. Taking care of one's mental and physical health is number one in order to succeed at anything. But, to exclusively focus on yourself is unhealthy. For those of us who would just live in our own worlds and do our own work, being strongly encouraged, even admonished in some cases, to get out of that cocoon and reach out to others is incredibly beneficial, not only for our community, but for our own well-being.

I do a lot of research with neurologists and psychiatrists, and I was meeting with the chief of pediatric mental health at a major hospital in the UK. After we finished a discussion of neurophysiology, I was rushing to my next meeting. He says, "Wait. Do you know the most important thing for children in preventing suicide?" I stopped in my tracks and said, "No. What?" He said, "It's having a family with strong religious faith."

After that, I went back to the people who did the Healthy Minds nationwide survey and I said, "It had a couple questions about religion. Did we have any significant difference there?" They said, "Oh, yes. It's well known," and sure enough, the MIT numbers and the national college numbers show huge statistically significant differences. Students who have regular religious practice are more mentally healthy.

I grew up as an atheist, and I know religion is not a comfortable topic. And religious practice is not the only protective factor. But at MIT, we have to talk about all these pillars of well-being. It's time to do the science to really understand what regulates mood — up and down. We don't want to take away Everest: that wouldn't be MIT. We want to climb something even bigger than Everest, but we want to succeed and help people succeed in doing it. So how do we do that?

Rosalind Picard is Professor in the Program in Media Arts and Sciences, and Faculty Chair of the MIT Mind+Hand+Heart initiative.

This project is supported by the Undergraduate Association's Committee on Student Support and Wellness, chaired by Tamar Weseley '17 and Alice Zielinski '16. To participate in the project, or to learn more, contact ResilienceProject@mit.edu.

There are many ways to find help. Members of the MIT community can access support resources at mindhandheart.mit.edu. To access support through MIT Medical's Mental Health & Counseling Service, please call (617) 253-2916 or visit medical.mit.edu.

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Cost to attend MIT bounded by HYPS

MIT's tuition falls between Yale's and Princeton's; home equity will no longer be considered for some

Schmill, from Page 1

dergraduate and graduate tuition are linked at MIT "so when adjusting undergraduate tuition, it is also necessary to examine how changes that extend to graduate tuition affect competitiveness."

In 2014-2015, MIT's undergraduates received a total of $129.7 million in financial aid (including both need- and merit-based aid from all sources). Of this figure, $92.1 million came from MIT scholarships, all of which are need-based. Approximately 56 percent of undergraduates received an MIT scholarship, with an average amount of $36,566, equivalent to 82 percent of tuition that year. MIT ensures that students with a family income under $75,000 will attend MIT tuition-free.

Of seniors graduating in 2015, 33 percent attended MIT tuition-free and 32 percent graduated with student loan debt that averaged $18,859, according to the faculty meeting minutes. Schmidt estimates that one third of undergraduates will attend MIT tuition free with the 10.4 percent increase in financial aid. The average financial aid award is estimated to be over $44,000.

"MIT believes that these changes address some of the lower- and middle-income family concerns — in particular as they relate to competitiveness with HYPS — and that these adjustments to financial aid are aligned with the BSU and BGSA recommendations received in December 2015," said Schmidt.

Tower, from Page 1

lio U2, the Rolling Stones, the Queen's Diamond Jubilee and the London 2012 Olympics.

More broadly, the lab is focused on developing structures that can evolve, from 3D-printing foldable structures to self-assembly which involves jittering various components of a design together until they assemble into a final product. Their research also provides visual insight into various microscopic processes, potentially providing new tools to teachers.

— Olivia Brode-Roger

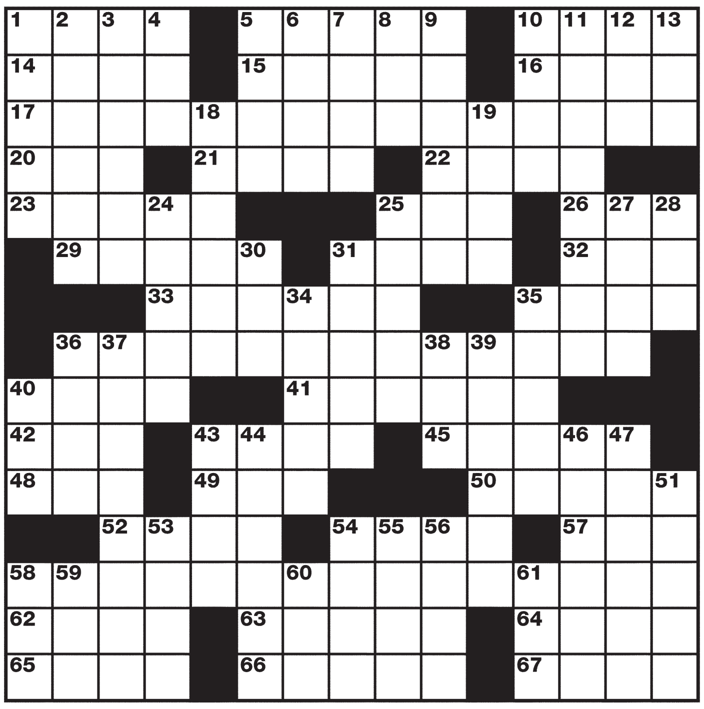
Solution to Franklin

from page 14

7	4	8	3	9	6	5	1	2
3	9	4	8	5	2	1	6	7
8	5	9	4	1	7	6	2	3
4	1	5	9	6	3	2	7	8
9	6	1	5	2	8	7	3	4
1	7	2	6	3	9	8	4	5
2	8	3	7	4	1	9	5	6
5	2	6	1	7	4	3	8	9
6	3	7	2	8	5	4	9	1

Solution to Crossword

from page 6



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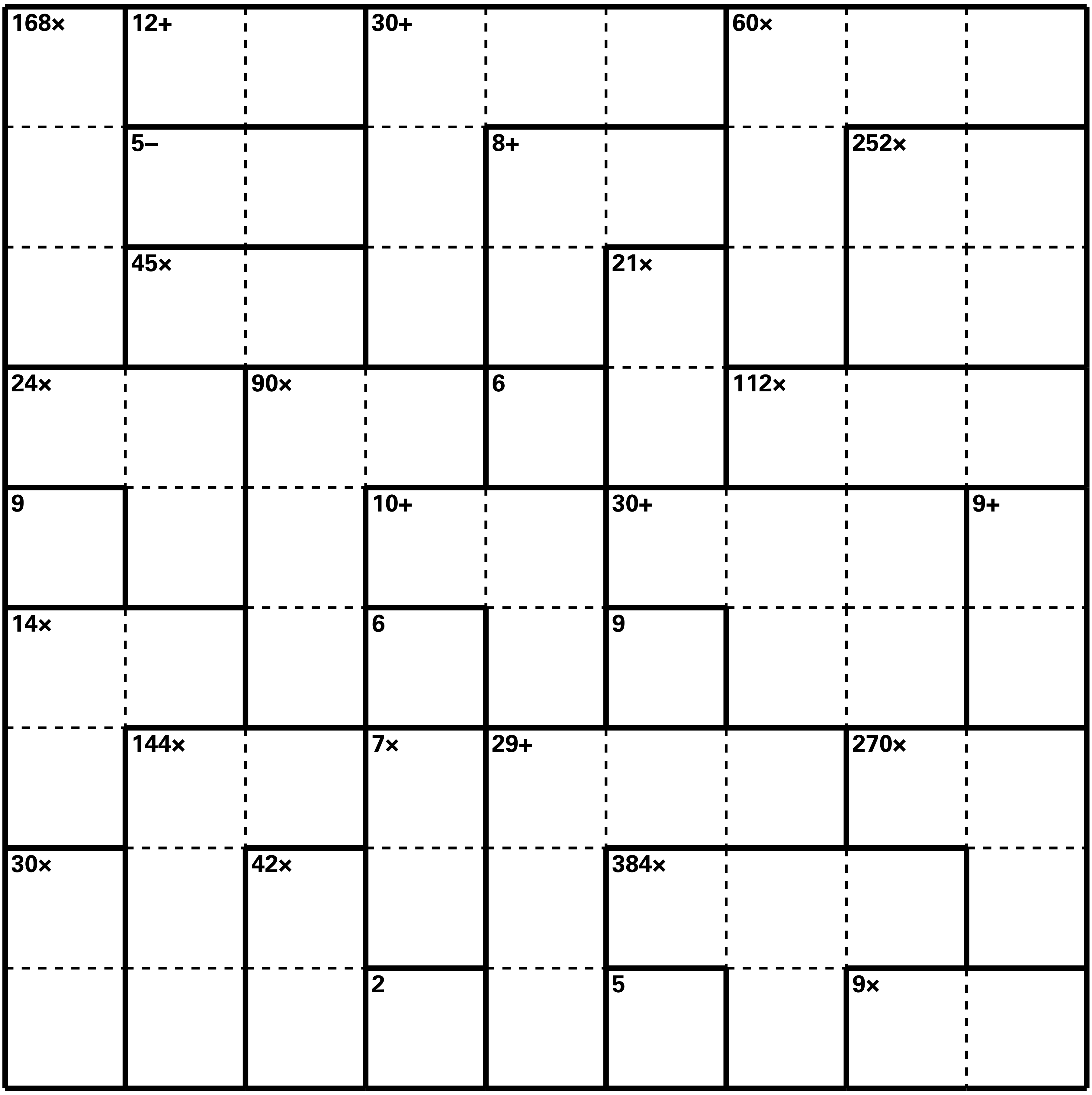
Franklin

Solution, page 13

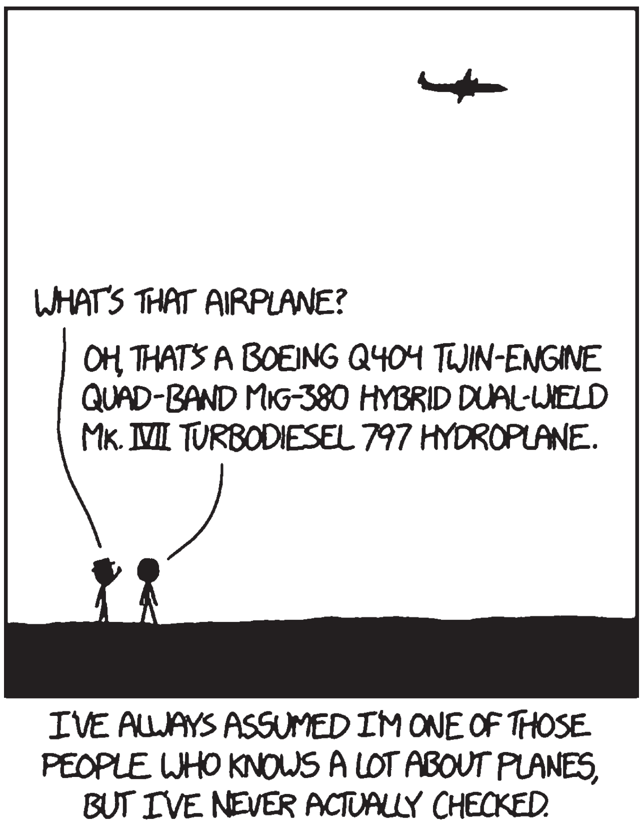


168×	12+		30+			60×		
	5–			8+			252×	
	45×				21×			
24×		90×		6		112×		
9			10+		30+			9+
14×			6		9			
	144×		7×	29+			270×	
30×		42×			384×			
			2		5		9×	

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–9. Follow the mathematical operations for each box.

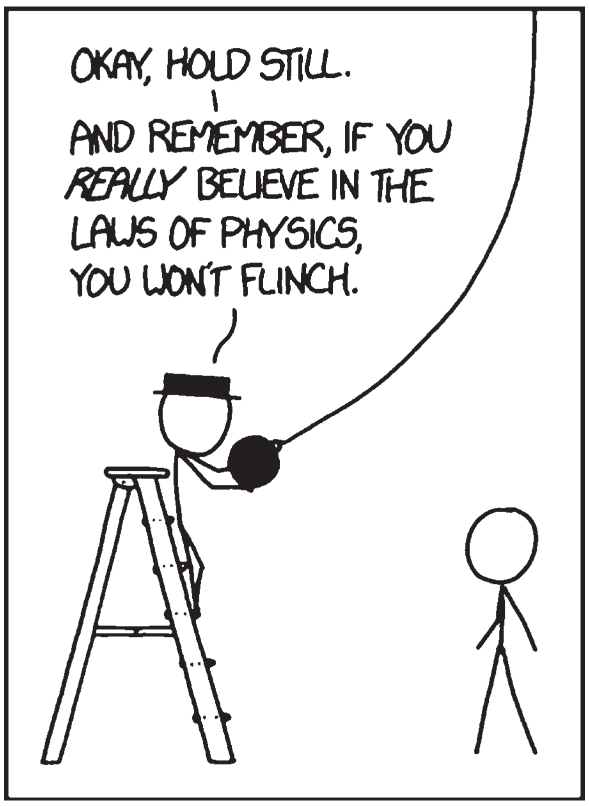
A webcomic of romance, sarcasm, math, and language
by Randall Munroe

[1669] Planespotting


WHAT'S THAT AIRPLANE?
OH, THAT'S A BOEING Q404 TWIN-ENGINE QUAD-BAND MIG-380 HYBRID DUAL-WIELD MK. XVII TURBODIESEL 797 HYDROPLANE.
I'VE ALWAYS ASSUMED I'M ONE OF THOSE PEOPLE WHO KNOWS A LOT ABOUT PLANES, BUT I'VE NEVER ACTUALLY CHECKED.

No, a hydroplane doesn't land on water—that's an aquaplane. A hydroplane is a plane that gets electric power from an onboard water reservoir with a tiny dam and turbines.

[1670] Laws of Physics


OKAY, HOLD STILL.
AND REMEMBER, IF YOU REALLY BELIEVE IN THE LAWS OF PHYSICS, YOU WON'T FLINCH.

The laws of physics are fun to try to understand, but as an organism with incredibly delicate eyes who evolved in a world full of sharp objects, I have an awful lot of trust in biology's calibration of my flinch reflex.

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THE MELDING OF IMPROVISATION AND COMPOSITION

WITH SPECIAL GUEST: EVIYAN
(IVA BITTOVÁ, GYAN RILEY AND EVAN ZIPORYN)

Top: EVIYAN (left to right) Gyan Riley, Iva Bittová and Evan Ziporyn.
Left: MIT Festival Jazz Ensemble

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UMASS BOSTON

Taekwondo places 2nd in Division I final tournament with 1,405 points

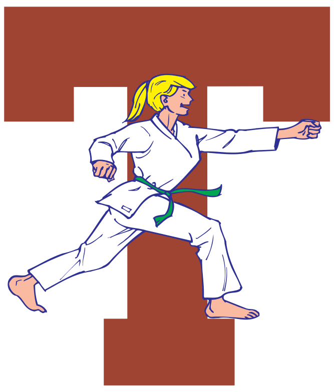
The team will go on to the NCTA Championships on April 22-23

By Gina Yuan
TEAM REPRESENTATIVE

The MIT Taekwondo team placed second in Division I at the final Eastern Collegiate Taekwondo Conference (ECTC) tournament of the year. This tournament was held at the University of Vermont on April 9, hosting 17 schools with about 290 competitors.

The day began with the poomsae competition, in which competitors are judged on their performance of choreographed forms. It was the first time competing for many in their respective divisions, having recently moved up a belt rank. Nevertheless, the team earned medals from both veterans and recently-promoted members.

Consistent high-scorers during the season, Tam Nguyen G and Renee Zhao '18 placed second and third respectively in the highly competitive women's black belt division. Co-captain Tahin Syed G and Ruben Amaez '16 finished in the finals of the men's black belt division, placing 5th and 8th, respectively.



In the women's red belt division, Nina Anwar '18 placed second among a sea of competitors. Yang Dai '16, with sharp movements and a precise cat stance, made her way to third. Emily Zhu '18 exhibited her soaring front kicks to win third in her first poomsae competition in the women's green belt division. In the men's yellow belt division, first-time competitor Josh Murdock G placed in the top 10.

The team had a stronger performance during the sparring rounds later in the day. The sparring teams scored points for all divisions, the first time that has happened in a while.

All three MIT A teams matched up against the ECTC's fiercest competitors, and the rounds were not easy. Both women's A1 (Jean Chow '16, Zhao, co-captain Andy Guatemala '16) and women's A2 (Nguyen, Maria Alexis G) teams tied for bronze, fighting both injury and tough opponents. In the men's division, the two-member A1 team (Amaez, Nicholas Hensel G) made it to quarterfinals. Both Amaez and Chow scored their first A team victories this tournament with their new black belts.

The MIT B teams similarly fought close matches and scored point gaps. In one of the last matches of the tournament, women's B1 (Dai, Jackie Wu '16, Sam Amey-Gonzales '18) ended the day on a high note with a gold. This match was one of many that showcased the positive attitude and enthusiasm of the team members, cheering enthusiastically on the sidelines. Women's B2 (Anwar, Ashley Wang '17) won bronze, while men's B1 (Akwasi Owusu-Akyaw '17, Manuel Guillen '18, and Mitchell Hwang '18) qualified for the quarterfinals.

In the C team division, both Women's C1 (Gina Yuan '19, Zhu) and Men's C1 (Joel Argueta '16, Rick Vink G) made it to the quarterfinals, scoring important points for the team.

Tallying the results of the entire season, the MIT Sport Taekwondo team placed second overall in Division I in the ECTC League with 1405 points, behind long-time rival Cornell. The team will continue to train hard in preparation for the National Collegiate Taekwondo Association (NCTA) Championships in Colorado on April 22 and 23.

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Men's lax scores in overtime

Edges Clark to clinch a 9-8 win

By Max Berkowitz
DAPER STAFF

Luke Verdi '16 scored with six seconds remaining in overtime to give the MIT men's lacrosse team a 9-8 victory over Clark University in NEWMAC action on Saturday afternoon. The extra session materialized after freshman Brandon King produced a man-up goal with four seconds left in regulation.

Harris Stolzenberg '17 opened the scoring with back-to-back goals midway through the first quarter. The score remained unchanged until Clark tallied three straight goals during the first five minutes of the second stanza. Junior Nick Johnson put the Cougars on the board at the 11:26 mark and then found senior Rob Holden for the equalizer 26 seconds later. Clark would then go ahead 3-2, courtesy of a strike by freshman Jack Pierce with 10:04 on the clock.

The Engineers replied with a blast by Christian Jamison '18 and a man-up goal from classmate Graham Davis '18 to reclaim the lead with 6:25 remaining. Clark then scored twice during the final three minutes to enter the intermission with a 5-4 advantage. Junior Rishi Singh evened things up on pass from classmate Matthew Sullivan while a solo effort by fellow junior Andrew Myhre put the visitors in front.

The third quarter was a back-and-forth affair as it ended in a 6-6 deadlock. Stolzenberg set up Michael Traub '17 after four minutes elapsed but the visitors inched ahead on a goal from junior Isaac Bass with 4:28 left. MIT produced the fifth tie of the day when Davis connected on a feed from Paul Orrson '16.

Clark reclaimed the one-goal lead at the 9:14 mark of the fourth quarter courtesy of a blast by sophomore Will Mandracchia. The Engineers battled back as goals from Orrson and Verdi resulted in an 8-7 advantage with 6:29 left to play. The Cougars dominated the action following the ensuing faceoff but they did not capitalize on the momentum until junior Lucas Petricone-Berg found King for the man-up score with four ticks left.

In the extra session, both teams produced two shots but they were off the mark. MIT gained possession with 10 seconds to go and then used a timeout. Once action resumed, Verdi barreled toward the net for the game-winner.

Stolzenberg finished with two goals and an assist while Davis and Verdi both scored twice. Traub totaled one goal and two assists as Jamison gathered four groundballs. TJ Burns '17 and Aubrey Toland '19 both posted three groundballs while Mitchell Galer '19 was 10-of-20 in faceoffs and picked up four groundballs. In net, Eric Bartell '16 generated 12 saves and three groundballs.

Johnson and Mandracchia both contributed one goal and one assist to the visitors' balanced attack. Freshman Patrick Campell scooped up four groundballs while senior Alex Turgeon won 10 of his 20 faceoff attempts. Sophomore Will Roberts bolstered the defense with two caused turnovers as junior Drew Riopelle-Tyrell tallied 12 saves and a game-high five groundballs.